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<u>L5</u>	predefine\$ adj interleav\$	34	<u>L5</u>
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1 W1-E: communication and information theory symposium: Large code set for PAPR reduction of OFDM signals and capacity increasing in MC-CDMA system

Khoirul Anwar, Masato Saito, Takao Hara, Minoru Okada, Heiichi Yamamoto
July 2006 Proceedings of the 2006 international conference on Wireless
communications and mobile computing IWCMC '06

Publisher: ACM Press

Full text available: pdf(549.71 KB) Additional Information: full citation, abstract, references, index terms

An interest to increase the capacity of multicarrier system such as multi-carrier code division multiple access (MC-CDMA) is attracting many studies to develop spreading code for a higher user capacity. In this paper, we proposes a new large spreading code set that is capable of increasing the capacity of MC-CDMA more than twice, offering better performance due to its *uniform low cross correlations and high autocorrelation* properties and has an additional advantage to reduce peak power of ...

**Keywords**: MC-CDMA, OFDM, peak-to-average power ratio (PAPR), pseudo-orthogonal carrier interferometry, spreading code

2 An OFDM-TDMA/SA MAC protocol with QoS constraints for broadband wireless LANs

Xudong Wang, Weidong Xiang

March 2006 Wireless Networks, Volume 12 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(635.82 KB) Additional Information: full citation, abstract, references, index terms

Orthogonal frequency division multiplexing (OFDM) is an important technique to support high speed transmission of broadband traffic in wireless networks, especially broadband wireless local area networks (LANs). Based on OFDM, a new multiple access scheme, called OFDM-TDMA with subcarrier allocation (OFDM-TDMA/SA), is proposed in this paper. It provides more flexibility in resource allocation than other multiple access schemes such as OFDM-TDMA, OFDM-frequency division multiple access (OFDM-FDMA ...

**Keywords**: medium access control (MAC), orthogonal frequency division multiplexing (OFDM), quality of service (QoS), subcarrier allocation (SA), time division multiplexing access (TDMA), wireless LANs

3	Network Simulation 1: Detailed OFDM modeling in network simulation of mobile ad	
٠	<u>hoc networks</u>	,
	Gavin Yeung, Mineo Takai, Rajive Bagrodia, Alireza Mehrnia, Babak Daneshrad  May 2004 Proceedings of the eighteenth workshop on Parallel and distributed simulation PADS '04	
•	Publisher: ACM Press	
	Full text available: pdf(152.05 KB) Additional Information: full citation, abstract, references, citings	
	In mobile ad hoc network (MANET) studies, it is imperative to use highly detailed device models as they provide high layer protocols with good prediction of underlying wireless communication performance. However, such studies often utilize abstract models for execution speed and simplicity. This paper first shows that physical layer variables including path loss, shadowing, multipath, Doppler have significant effects on the predicted overall networking performance. It then proposes an approach t	
4	Communication and information theory symposium: wireless networks: Permutated	
٩	OOK-QPSK in OFDM to reduce the ICI due to carrier frequency offset	
•	Chuanhui Ma, Guillermo E. Atkin, Chi Zhou August 2007 Proceedings of the 2007 international conference on Wireless	
	communications and mobile computing IWCMC '07	
	Publisher: ACM Press	
	Full text available: pdf(312.74 KB) Additional Information: full citation, abstract, references, index terms	
	Orthogonal Frequency Division Multiplexing (OFDM) has attracted significant interests in wireless communications due to its robustness against multi-path fading and high-data-rate transmission. However, conventional OFDM systems are sensitive to the Carrier Frequency Offset (CFO), which causes the Inter-Carrier Interference (ICI) and greatly degrades the system performance. In this paper, we proposed a novel OFDM system using a permutated On-Off-Keying Quadrature-Phase-Shift-Keying (OOK-QPSK)	
	Keywords: CFO, ICI, OFDM, OOK, QPSK, permutation	
5	Performance and implementation of clustered-OFDM for wireless communications Babak Daneshrad, Leonard J. Cimini, Manny Carloni, Nelson Sollenberger December 1997 Mobile Networks and Applications, Volume 2 Issue 4 Publisher: Kluwer Academic Publishers Full text available: pdf(681.28 KB) Additional Information: full citation, abstract, references, index terms	
	An elegant means by which high-speed burst wireless transmission can be accomplished	
	with small amounts of overhead is through a novel technique referred to as clustered-OFDM (Cimini et al., 1996). By using OFDM modulation with a long symbol interval, clustered-OFDM overcomes the complex and costly equalization requirements associated with single carrier systems. Moreover, the need for highly linear power amplifiers typically required in OFDM systems is alleviated through the use of multipl	
6	WLANs: Dynamic single-user ofdm adaptation for ieee 802.11 systems	
	James Gross, Marc Emmelmann, Oscar Puñal, Adam Wolisz October 2007 <b>Proceedings of the 10th ACM Symposium on Modeling, analysis, and</b>	
	simulation of wireless and mobile systems MSWiM '07 Publisher: ACM	
	Full text available: pdf(236.49 KB) Additional Information: full citation, abstract, references, index terms	
	Earlier paper have demonstrated that the achievable throughput of OFDM systems can benefit significantly from individual modulation/transmit power selection on a per subcarrier basis according to the actual gain of individual sub-carriers (so called dynamic OFDM scheme). Usage of such approach requires, however, providing support for	

additional functionality like: acquisition of the sub-carrier gains, signaling of the used modulation types between the sender and receiver, etc. Therefore dyna ...

**Keywords**: IEEE 802.11, adaptive modulation, ofdm

7 �	Poster session: A DSP implementation of OFDM acoustic modem Hai Yan, Shengli Zhou, Zhijie Jerry Shi, Baosheng Li September 2007 Proceedings of the second workshop on Underwater networks WuWNet '07	٠
	Publisher: ACM Press Full text available: pdf(233.89 KB) Additional Information: full citation, abstract, references, index terms	
	The success of multicarrier modulation in the form of OFDM in radio channels illuminates a path one could take towards high-rate underwater acoustic communications, and recently there are intensive investigations on underwater OFDM. In this paper, we implement the acoustic OFDM transmitter and receiver design of [4,5] on a TMS320C6713 DSP board. We analyze the workload and identify the most time-consuming operations. Based on the workload analysis, we tune the algorithms and optimize the code	
	. <b>Keywords</b> : DSP, OFDM, acoustic modem, multicarrier	
8 �	W2-D: communication and information theory symposium: Two-dimensional pilotaided channel estimation for wireless OFDM systems over severe frequency-selective fading environments Chien-Yu Huang, Wen-Jeng Lin, Jia-Chin Lin, Jung-Shan Lin July 2006 Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06 Publisher: ACM Press	
	Full text available: pdf(622.19 KB) Additional Information: full citation, abstract, references, index terms	
	Orthogonal frequency division multiplexing (OFDM) technique is effective and powerful in high data rate digital transmission due to its spectral efficiency, robustness in multipath propagation environments and ability to cope with intersymbol interference. Channel estimation is a crucial problem in coherent OFDM systems, and the various estimation techniques with particular pilot arrangements have been investigated recently. In this paper, a two-dimensional pilot-aided channel estimation techniq	
	Keywords: OFDM, channel estimation, frequency-selective fading, pilot arrangement	
9 �	T1-A: next generation mobile networks symposium: High peak to average ratio solution in OFDM of 4G mobile systems  Jihad Qaddour  July 2006 Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06	
	Publisher: ACM Press Full text available: pdf(222.73 KB) Additional Information: full citation, abstract, references, index terms	
	The advent of 4G wireless systems has created many research opportunities. The expectations from 4G are high in terms of data rates, spectral efficiency, mobility and integration. Orthogonal Frequency Division Multiplexing (OFDM) is proving to be a possible multiple access technology to be used in 4G. But OFDM comes with its own challenges like high Peak to Average Ratio, linearity concerns and phase noise. This paper	

proposes a solution to reduce Peak to Average Ratio by clipping method. MATLAB ...

Keywords: OFDM, clipping, fourth generation (4G), peak to average ratio, simulations

10 Communication and information theory symposium: wireless networks: Channel estimation technique with assistance of PN-coded training sequences for wireless OFDM communications Yan-Chang Chen, Wen-Jeng Lin, Jung-Shan Lin August 2007 Proceedings of the 2007 international conference on Wireless communications and mobile computing IWCMC '07 Publisher: ACM Press Full text available: Ppdf(384.77 KB) Additional Information: full citation, abstract, references, index terms In OFDM systems, channel estimation is a crucial consideration for improving system performance. The channel fading effects are eliminated by the equalization of received signal, and the equalizer coefficients are determined according to the results of channel estimation. In this paper, the channel estimation of OFDM systems in time domain for fast fading channel is investigated and developed. The time-domain channel estimation scheme is achieved by inserting pseudo-noise (PN) sequences in th ... **Keywords**: OFDM, PN sequence, channel estimation, least squares 11 M1-D: sensor and wireless resource management symposium: Uplink capacity comparison of non-perfect frequency synchronized cellular OFDM systems Shameem Kabir Chaudhury, Hrishikesh Venkataraman, Harald Haas July 2006 Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06 Publisher: ACM Press Full text available: pdf(169.40 KB) Additional Information: full citation, abstract, references, index terms Orthogonal frequency division multiplexing (OFDM) is very sensitive to frequency offsets which result in considerable interference. Performance of the system will be exacerbated in the uplink of a cellular deployment with frequency reuse of one. A general mathematical model is developed to calculate the amount of interference in cellular OFDM system considering frequency offset between transmitter (Tx) and receiver (Rx), depending on different multiple access and duplexing techniques. An ideal a ... Keywords: FDD, FDMA, SINR, TDD, TDMA, adaptive modulation, cellular OFDM, time slot opposing algorithm 12 MIMO systems symposium: detection and estimation: Pilot-assisted channel estimation for STBC-based wireless MIMO-OFDM systems Bo-Chiuan Chen, Wen-Jeng Lin, Jung-Shan Lin August 2007 Proceedings of the 2007 international conference on Wireless communications and mobile computing IWCMC '07 Publisher: ACM Press Full text available: pdf(404.54 KB) Additional Information: full citation, abstract, references, index terms With equipping multiple antennas at both transmitter and receiver ends, the desired signals in the OFDM wireless communications could be transmitted and received through multiple uncorrelated channels for achieving twofold benefits and high flexibility. For this kind of MIMO-OFDM systems, if the assistance of channel estimation is under consideration, the overall system performance is able to be further enhanced. This paper proposed a pilot-symbol-assisted channel estimation technique for MIM ... Keywords: MIMO, OFDM, channel estimation, pilot symbols

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13	W2-D: communication and information theory symposium: Channel estimation technique assisted by postfixed PN sequences with zero padding for wireless OFDM	
•	communications Hong-Yu Chen, Wen-Jeng Lin, Jung-Shan Lin, Jia-Chin Lin July 2006 Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06	
	Publisher: ACM Press Full text available: pdf(155.90 KB) Additional Information: full citation, abstract, references, index terms	
	It is well-known that in order to enhance system performance, channel estimation in coherent OFDM systems is necessary and crucial. In practice, lots of coherent OFDM systems transmit pilot symbols over some of the subcarriers for the purpose of estimating channel attenuation, and also insert cyclic prefixto avoid inter-carrier and inter-symbol interference. In this paper, a pseudo noise (PN) sequence combined with zero padding is inserted in the postfix of each OFDM symbol to estimate the chann	
	Keywords: OFDM, PN sequence, Rayleigh fading channel, channel estimation	
14	Cross-layer adaptive techniques for throughput enhancement in wireless OFDM-based networks Iordanis Koutsopoulos, Leandros Tassiulas October 2006 IEEE/ACM Transactions on Networking (TON), Volume 14 Issue 5	
	Publisher: IEEE Press	
	Full text available: pdf(482.97 KB) Additional Information: full citation, abstract, references, index terms	
	Although independent consideration of layers simplifies wireless system design, it is inadequate since: 1) it does not consider the effect of co-channel user interference on higher layers; 2) it does not address the impact of local adaptation actions on overall performance; and 3) it attempts to optimize performance at one layer while keeping parameters of other layers fixed. Cross-layer adaptation techniques spanning several layers improve performance and provide better quality of service for u	
	<b>Keywords</b> : cross-layer design, multicell systems, orthogonal frequency-division multiplexing (OFDM), resource allocation	
15	Session 33: low-power, thermal-aware architectures: Energy-scalable OFDM	
<b>②</b>	transmitter design and control  Björn Debaillie, Bruno Bougard, Gregory Lenoir, Gerd Vandersteen, Francky Catthoor  July 2006 Proceedings of the 43rd annual conference on Design automation DAC '06	-
	Publisher: ACM Press	
	Full text available: pdf(1.01 MB)  Additional Information: full citation, abstract, references, index terms	
	Orthogonal Frequency Division Multiplexing (OFDM) is the modulation of choice for broadband wireless communications. Unfortunately, it comes at the cost of a very low energy efficiency of the analog transmitter. Numerous circuit-level and signal processing techniques have been proposed to improve that energy efficiency. However more disruptive improvement can be achieved at system-level, capitalizing on energy-scalable design and circuit reconfiguration to match the user requirements and operati	
	Keywords: OFDM, energy management, energy-aware design, energy-scalability	

16 <b>③</b>	W1-E: communication and information theory symposium: VLSI implementation of programmable FFT architectures for OFDM communication system	
*	Shuenn-Yuh Lee, Chia-Chyang Chen July 2006 Proceedings of the 2006 international conference on Wireless communications and mobile computing IWCMC '06 Publisher: ACM Press	
	Full text available: pdf(3.22 MB)  Additional Information: full citation, abstract, references, index terms	
	Two programmable FFT processors for OFDM (Orthogonal Frequency Division Multiplex) communication systems are presented in this paper. Coolay-Tukey radix-2/4/8 algorithm and mixed-radix-2/2²/2³ are employed in the pipelined SDF (Single-path Delay Feedback) architecture and pipelined MDC (Multiple-Path Delay Commutator) shared-memory architecture, respectively. The size of FFT processors with power of 2 can be programmable in the range between 64 and 8192. Based on the progra	
	Keywords: FFT processor, VLSI architecture, low power	
17 <b>②</b>	High level power modeling and analysis: Minimizing power consumption and complexity in a programmable transmit filter bank for OFDM Alireza Mehrnia, Babak Daneshrad	
	August 2004 Proceedings of the 2004 international symposium on Low power electronics and design ISLPED '04 Publisher: ACM Press	
	Full text available: pdf(458.60 KB) Additional Information: full citation, abstract, references, index terms	
	Filter banks are efficient and essential signal processing blocks for design and implementation of multi-rate multi-band communications and signaling. In this paper we analytically study and derive the optimum choice of design parameters and filter bank structure to minimize power consumption and implementation cost for a programmable multi-rate transmit filter bank for OFDM. The optimization is performed on two fronts. We first perform system-level power and complexity analysis to define the op'	
	Keywords: IFIR, OFDM, filter bank, low power design, multi-rate signal processing	
18	Special session 2: Future mobile communication technology trends: A novel coded MIMO-OFDM scheme  Gang Wu October 2006 Proceedings of the 3rd international conference on Mobile technology, applications & systems Mobility '06	
	Publisher: ACM Press Full text available: pdf(123.75 KB) Additional Information: full citation, abstract, references	
	Coded MIMO-OFDM is the main feature of Beyond 3G mobile communication system. In this paper, we present a Coded MIMO OFDM scheme, namely Spatial Temporal Turbo Channel Coding (STTCC). The scheme combines channel coding (trellis/turbo), modulation and spatial multiplexing together to achieve high data rate and performance, and is effective with a small number of receive antenna. This includes the case of only one receive antenna, to meet the weight, size and battery consumption requirements of	
	Keywords: 3GPP, LTE, MIMO, OFDM, STTCC, coding	
19	Communication and information theory symposium: wireless communications: Predictive transmit beamforming for MIMO-OFDM in time-varying channels with	



## limited feedback

Jae Yeun Yun, Sae-Young Chung, Jihoon Choi, Yong-Up Jang, Yong H. Lee August 2007 Proceedings of the 2007 international conference on Wireless communications and mobile computing IWCMC '07

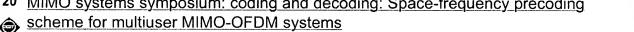
Publisher: ACM Press

Full text available: pdf(252.23 KB) Additional Information: full citation, abstract, references, index terms

A limited feedback-based transmit beamforming technique for multiple-input multipleoutput orthogonal frequency division multiplexing (MIMO-OFDM) is investigated in timevarying channels. The performance of the system is significantly degraded by outdated feedback information even when the channel varies slowly. To compensate for the impairment in time-varying channels, the optimal transmit beamforming vector for a future channel, which maximizes the expected effective channel gain, is derive ...

**Keywords**: MIMO-OFDM, prediction, time-varying channel, transmit beamforming

20 MIMO systems symposium: coding and decoding: Space-frequency precoding



Wei Wang, Chunlin Yan, Zhan Zhang, Hidetoshi Kayam

August 2007 Proceedings of the 2007 international conference on Wireless communications and mobile computing IWCMC '07

Publisher: ACM Press

Full text available: pdf(383.95 KB) Additional Information: full citation, abstract, references, index terms

In multiuser MIMO-OFDM closed-loop system downlink, a proper scheduling algorithm can be used to extract the multi-user diversity by pouring more space-time-frequency (STF) resources to the user with better channel quality. For these systems, we aim to achieve further improvement without increasing the feedback overhead, and without sacrificing the performance gain the multiuser scheduling can provide. In this paper, a new spacefrequency precoding scheme is proposed which makes better use of ...

**Keywords**: MIMO, OFDM, precoding, space-frequency coding

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